

II. CLAIM AMENDMENTS

1.-16. (Cancelled)

17. (Currently Amended) A method ~~for recognizing a selection from a set of at least two alternatives, the method comprising:~~

determining the positions of a set of at least two ~~the~~ alternatives that surround a user on the basis of their direction with respect to the user so that the locations of the positions remain substantially the same with respect to the user irrespective of the location of the user;

~~allowing the user to do~~recognizing a first movement of a member of the body to a position corresponding to ~~an~~ a desired alternative ~~the user desires;~~

recognizing a second movement ~~of a member of the body done by the user in the position corresponding to the~~ desired alternative ~~the user desires;~~

in response to the second movement, recognizing ~~the~~ a selection of the desired alternative ~~the user desires as completed; and~~

providing the recognized selection as an output,

wherein said positions are sectors on an arcuate area surrounding the user and separated by separating areas arranged to reduce selection errors, and

wherein said first movement comprises moving ~~the~~ a member of the user's body to a certain sector on said arcuate area between two of the separating areas.

18. (Currently Amended) A method according to claim 17, further comprising:

indicating ~~to the user~~ at least once the positions corresponding to the alternatives as one of the following:

showing virtual images in each position, showing an arcuate area with a plurality of sectors at the level of the user's waist, said sectors corresponding to said positions, and informing the alternative corresponding to a position audiophonically.

19. (Currently Amended) A method according to claim 17, further comprising:

demonstrating ~~to the user~~ the alternative indicated at any given time.

20. (Previously Presented) A method according to claim 17, further comprising:

recognizing the second movement contactlessly.

21. (Previously Presented) A method according to claim 17, wherein the first movement is the movement of the user's hand.

22. (Previously Presented) A method according to claim 17, further comprising:

carrying out a certain first function in response to the output.

23. (Previously Presented) A method according to claim 17, further comprising:

allowing the user to carry out a certain second activity with a specific third movement of the member of the body.

24. (Currently Amended) ~~An electronic device for recognizing a selection from a set of at least two alternatives, the device~~apparatus comprising:

~~means for determining positions of the~~ a display configured for displaying a set of at least two alternatives that surround ~~the~~a user on the basis of their direction with respect to the user so that the locations of the ~~positions~~alternatives remain substantially the same with respect to the user irrespective of the location of the user;

~~means for allowing the user to do a~~ device configured for recognizing a first movement of a member of the body to a position corresponding to ~~ana~~ a desired alternative the user desires; and configured for

~~means for recognizing a second movement of a member of the body done by the user in the position;~~

~~means~~ the apparatus configured for recognizing ~~the carrying out of the~~ a selection the user desires of the desired alternative in response to the second movement; and

an output for outputting the recognized selection,

wherein ~~said means for determining are arranged to determine said positions~~ display is configured to display the alternatives as sectors on an arcuate area surrounding the user and separated by separating areas arranged to reduce selection errors, and

wherein the position corresponding to ~~ana~~ a desired alternative ~~the user desires is~~ located on the arcuate area between two of the separating areas.

25. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

~~the device further comprises means~~ display is configured for indicating to the user the positions corresponding to the alternatives as one of the following:

showing a virtual image in each position, showing an arcuate area with a plurality of sectors at the level of the user's waist, said sectors corresponding said positions, and the apparatus is configured for informing the alternative corresponding to a position audiophonically.

26. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

~~the device further comprises presentation means~~ display is configured for indicating the alternative indicated at any given time ~~to the user~~.

27. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

~~the means~~ device configured for recognizing the second movement carried out by the user in the position ~~are adapted~~ is configured to recognize the second movement contactlessly.

28. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

the first movement is the movement of the user's hand.

29. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

~~the device further comprises means~~ apparatus is configured for carrying out a certain first function in response to the second movement.

30. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

~~the device further comprises means~~ apparatus is configured for carrying out a specific second function in response to the third movement.

31. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein:

~~the means~~ device configured for recognising the second movement ~~carried out by the user in the position are adapted~~ is configured to be attached to the user.

32. (Currently Amended) An apparatus ~~A device~~ according to claim 24, ~~wherein:~~

~~the device comprises~~ further comprising at least one of the following: a mobile station, a computer, a television apparatus, a data network browsing device, an electronic book, and an at least partly electronically controlled vehicle.

33. (Cancelled)

34. (Previously Presented) A method according to claim 17, wherein said arcuate area is a selection disc.

35. (Previously Presented) A method according to claim 21, wherein said first movement is a substantially horizontal arcuate movement of the hand to a certain sector of the arcuate area situated substantially in a horizontal plane.

36. (Previously Presented) A method according to claim 35, wherein said second movement is a substantially vertical movement of a hand at said certain sector.

37. (Previously Presented) A method according to claim 35, wherein said second movement is placing a hand into a certain position at said certain sector.

38. (Previously Presented) A method according to claim 17, further comprising:

determining the positions corresponding to each alternative in the space surrounding a user also on the basis of their distance with respect to the user.

39. (Cancelled)

40. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein said arcuate area is a selection disc.

41. (Currently Amended) An apparatus ~~A device~~ according to claim 28, wherein said first movement is a substantially horizontal arcuate movement ~~of the hand~~ to a certain sector of a circular area situated substantially in a horizontal plane.

42. (Currently Amended) An apparatus ~~A device~~ according to claim 41, wherein said second movement is a substantially vertical movement ~~of a hand~~ at said certain sector.

43. (Currently Amended) An apparatus ~~A device~~ according to claim 41, wherein said second movement is ~~placing a hand~~ a movement into a certain position at said certain sector.

44. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein ~~said means for determining are arranged to determine said positions also~~ of the alternatives are determined on the basis of their distance with respect to the user.

45. (Currently Amended) A system ~~for recognizing user's selection, the system~~ comprising:

a central unit,

a three dimensional display device,

the central unit comprising ~~communication means~~ a port for communicating positions corresponding to selection alternatives to the three dimensional display device,

the three dimensional display device being ~~arranged~~ configured to display ~~to the user~~ the positions of selection alternatives that surround the user on the basis of their direction with respect to the user so that the locations of the positions remain substantially the same with respect to the user irrespective of the location of the user, said positions being sectors on an arcuate area surrounding the user and separated by separating areas arranged to reduce selection errors ,

~~means~~ a device configured for recognizing a movement ~~of a member of a body of the user~~ to one of the positions on said arcuate area between two of the separating areas, and ~~communication means~~ configured for communicating a recognized movement ~~from the means for recognizing~~ to the central unit,

wherein the central unit being ~~arranged~~ configured to process the selection of an alternative on the basis of the recognized movement.

46. (Previously Presented) A system according to claim 45,

wherein the central unit comprises at least one of the following:

a mobile station, a computer, a television apparatus, a data network browser device, an electronic book, and at least partly electronically controlled vehicle.

47. (Currently Amended) A system according to claim 45, wherein the ~~means~~ device configured for recognizing is a camera.

48. (Currently Amended) A system according to claim 45, wherein the ~~means~~device configured for recognizing is a shape tape.

49. (Previously Presented) A system according to claim 45, wherein the arcuate area is a selection disk.

50. (Currently Amended) A system according to claim 45, wherein the three dimensional display device and the ~~means~~device configured for recognizing are comprised in the same unit.

51. (Currently Amended) A system according to claim 45, wherein the three dimensional display device is configured as virtual glasses.

52. (Currently Amended) A user interface ~~for an electronic device for recognizing a selection from a set of at least two alternatives, the user interface comprising:~~

~~means for determining positions of the~~ a display configured for displaying a set of at least two alternatives that surround a user on the basis of their direction with respect to the user so that the locations of the ~~positions~~alternatives remain substantially the same with respect to the user irrespective of the location of the user;

~~means for allowing the user to do a~~ camera configured for recognizing a first movement of a member of the body to a position corresponding to a desired ~~alternative the user desires; and~~

~~means for recognizing a second movement of a member of the body done by the user in the position;~~

~~means~~ a control unit configured for recognizing the carrying out of ~~the~~ a selection ~~the user desires~~ of the desired alternative in response to the second movement; and

an output for outputting the recognized selection,

wherein ~~said means for determining~~ are arranged to determine said positions~~display is configured for displaying the alternatives~~ as sectors on an arcuate area surrounding the user and separated by separation areas arranged to reduce selection errors, and

wherein the position corresponding to ~~ana~~ a desired alternative ~~the user desires~~ is one of the sectors on the arcuate area.

53. (Currently Amended) A method according to claim 17, ~~wherein allowing the user to do said~~ further comprising making the first movement ~~of a member of the body allows the user to move~~ using a first member of the user's body and ~~the recognizing of said making the~~ second movement ~~recognizes the movement of~~ using a second member of the user's body, wherein the first and second members of the user's body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.

54. (Currently Amended) An apparatus ~~A device~~ according to claim 24, wherein ~~said means for the allowing the user to do said first movement of a member of the body allows the user to move a first member of the body and the means for recognizing of said second~~

movement device for recognizing the first and second movements recognizes the movement of a first and second member of the user's body, wherein the first and second members of the user's body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.

55. (Currently Amended) A system according to claim 45, ~~further comprising means for allowing the user to do said~~wherein the device configured for recognizing a movement of a member of the body and allowing the user to move a first member of the body and wherein the means for recognizing recognizes theis configured to recognize a movement of a first and second member of the user's body, wherein the first and second members of the user's body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.

56. (Previously Presented) A user interface according to claim 52, wherein said ~~means for allowing the user to do said first movement of a member of the body allows the user to move a first member of the body and the means for recognizing of said second member recognizes the movement~~camera configured for recognizing the first and second movements is configured to recognize a movement of a first and second member of the user's body, wherein the first and second members of the user's body are selected from the group consisting of:

the first and second members of the body are a common member of the body of the user; and

the first member of the body is a hand and the second member of the body is the fingers of the hand.